

LOW NOx REBUILD SERVICE LETTER

In compliance with the recent agreement reached between Mack Trucks and EPA Mack Trucks is notifying rebuilders of Mack and Renault VI manufactured engines of certain requirements that must be performed during rebuild of certain Mack and Renault engines.

Engines covered by the agreement are certain Mack manufactured electronically controlled E7 and E-TECH engines manufactured between January 1, 1994 and September 22, 1998, engine serial numbers 4B through 8R. Attached is a list of E7 and E-TECH engine models with their assigned V-MAC data file part numbers. If an engine model and its assigned V-MAC data file part number appears on the list that engine is included in the agreement.

Certain Renault VI manufactured MIDR 06.02.26 engines included were manufactured between January 1, 1993 and October 31, 1998.

Renault MIDR 06.02.26 L/2 engines are not included in the agreement.

The following are guidelines by engine model that determine if an engine rebuild is covered by the requirements of the agreement with EPA.

Renault VI MIDR 06.02.26

Engines with less than 185,000 miles at the time of overhaul in which 2 or more cylinder components are replaced in all 6 cylinders. Engines with more than 185,000 miles at the time of overhaul in which 2 or more cylinder components were replaced in 4 or more cylinders. Cylinder components are defined as:

- piston assemblies
- piston ring assemblies
- connecting rods
- cylinder liners

Renault engines rebuilt under the above definition MUST have a LOW NOx Rebuild Kit installed before the engine is returned to service. The LOW NOx Rebuild Kit consists of a data file change and an engine label. After the data file change, the label included in the rebuild kit MUST be completed with the date of the data file change and the code of the Mack dealer where the data file was changed. The completed label then MUST be installed on the valve cover next to the existing emission sticker before the engine is returned to service.

Mack E7 and E-TECH (electronically controlled)

Engines with less than 290,000 miles at the time of overhaul in which 2 or more cylinder components are replaced in all 6 cylinders. Engines with more than 290,000 miles at the time of overhaul in which 2 or more cylinder components were replaced in 4 or more cylinders. Cylinder components are defined as:

piston assemblies

piston ring assemblies

connecting rods

cylinder liners

E7 and E-TECH engines rebuilt under the above definition MUST have a LOW NOx Rebuild Kit installed before the engine is returned to service. The LOW NOx Rebuild Kit consists of a Mack data file change and an engine label. After the data file change, the label included in the rebuild kit MUST be completed with the date of the data file change and the code of the Mack dealer where the data file was changed. The completed label then MUST be installed on the valve cover next to the existing emission sticker before the engine is returned to service.

Short Blocks and Basic Engine Assemblies

When replacing a Mack or Renault engine covered by the Low NOx Rebuild agreement with either a short block or basic engine the instructions included with the short block or basic engine must be followed. The engine MUST have a LOW NOx Rebuild Kit installed before the engine is returned to service. The LOW NOx Rebuild Kit consists of a data file change and an engine label. After the data file change, the label included in the rebuild kit MUST be completed with the date of the data file change and the code of the Mack dealer where the data file was changed. The completed label then MUST be installed on the valve cover next to the existing emission sticker before the engine is returned to service.

Non-Mack Affiliated Engine Rebuilders

When a non-Mack affiliated engine rebuilder has rebuilt a Mack or Renault engine covered by the Low NOx Rebuild agreement the engine must be brought to an authorized Mack dealer to have a Low NOx Rebuild Kit installed before the engine is returned to service. The Low NOx Rebuild Kit consists of a data file change and an engine label. After the data file change, the label included in the rebuild kit MUST be completed with the date of the data file change and the code of the Mack dealer where the data file was changed. The completed label then MUST be installed on the valve cover next to the existing emission sticker before the engine is returned to service.

Recovery of labor expense for installing rebuild kits is through normal Mack warranty claim procedures. Labor allowance is 0.7 hours. Claims may be filed for installation of the rebuild kit for engines rebuilt by authorized Mack dealers or engines rebuilt by non-Mack affiliated rebuilders.

PROCEDURE TO BE FOLLOWED
BY NON MACK AFFILIATED REBUILDERS
TO OBTAIN LOW NO_x REBUILD KITS

In compliance with the recent agreement reached between Mack Trucks and EPA Mack Trucks is making available to rebuilders of Mack and Renault VI manufactured engines Low NO_x Rebuild Kits to be installed on certain Mack and Renault VI engines. Engines covered by the agreement are certain Mack manufactured electronically controlled E7 and E-TECH engines manufactured between January 1, 1994 and September 22, 1998, engine serial numbers 4B through 8R. Attached is a list of E7 and E-TECH engine models with their assigned V-MAC data file part numbers. If an engine model and its assigned V-MAC data file part number appears on the list that engine is included in the agreement.

Certain Renault VI manufactured MIDR 06.02.26 engines included were manufactured between January 1, 1993 and October 31, 1998.

Renault MIDR 06.02.26 L/2 engines are not included in the agreement.

The following are rebuild guidelines by engine model that determine if an engine rebuild is covered by the requirements of the agreement with EPA.

Renault VI MIDR 06.02.26

Engines with less than 185,000 miles at the time of overhaul in which 2 or more cylinder components are replaced in all 6 cylinders. Engines with more than 185,000 miles at the time of overhaul in which 2 or more cylinder components were replaced in 4 or more cylinders. Cylinder components are defined as:

- piston assemblies
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- connecting rods
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Mack E7 and E-TECH (electronically controlled)

Engines with less than 290,000 miles at the time of overhaul in which 2 or more cylinder components are replaced in all 6 cylinders. Engines with more than 290,000 miles at the time of overhaul in which 2 or more cylinder components were replaced in 4 or more cylinders. Cylinder components are defined as:

- piston assemblies
- piston ring assemblies
- connecting rods
- cylinder liners

When a non-Mack affiliated engine rebuilder has rebuilt a Mack or Renault engine covered by the Low NO_x Rebuild agreement the engine must be brought to an authorized Mack dealer to have a Low NO_x Rebuild Kit installed before the engine is returned to

service. The Low NOx Rebuild Kit consists of a data file change and an engine label. After the data file change, the label included in the rebuild kit will be completed with the date of the data file change and the code of the Mack dealer where the data file was changed. The completed label then will be installed on the valve cover next to the existing emission sticker before the engine is returned to service.

Recovery of labor expense for installing rebuild kits is through normal Mack warranty claim procedures and will be free of charge to rebuilders. Labor allowance is 0.7 hours. Claims will be filed for installation of the rebuild kit by the Mack dealer who installed the kit.

